

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

REPORT FOR (MONTH & YEAR):  
January 2010

DATE:  
February 1, 2010

TO: NATIONAL WEATHER SERVICE (W/OS31)  
HYDROMETEOROLOGICAL INFO CENTER  
1325 EAST-WEST HIGHWAY, RM 13468  
SILVER SPRING, MD 20910

SIGNATURE:  
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When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).

An X inside this box indicates that no significant flooding occurred within this Hydrologic Service Area.

**Summary**

No significant flooding occurred during the month of January. A river flood advisory was issued for the Looking Glass River near Eagle, Michigan, when an ice jam caused river levels to rise and exceed bankfull.

**Flood Conditions**

Monday, January 25<sup>th</sup>

At 2:15 PM EST, a river flood advisory was issued for the Looking Glass River near Eagle, Michigan, when backwater from an ice jam caused the river to spill out of its banks. River levels rose rapidly to 5.6 feet and then held steady overnight. For the Looking Glass River near Eagle, Michigan, bankfull stage is 5 feet and flood stage is 8 feet.

At 8:27 PM EST, the river flood advisory was continued for the Looking Glass River near Eagle, Michigan.

Tuesday, January 26<sup>th</sup>

At 10:05 AM EST, the river flood advisory was continued for the Looking Glass River near Eagle, Michigan. The river crested at 5.6 feet Monday night and fell to 5.3 feet Tuesday morning.

Wednesday, January 27<sup>th</sup>

At 10:07 AM EST, the river flood advisory continued for the Looking Glass River near Eagle, Michigan. The river fell to 5.2 feet and was forecast to continue to fall.

At 12:33 PM EST, the river flood advisory was cancelled for the Looking Glass River near Eagle, Michigan, when the river fell back within its banks.

**Flood Stage Report**

No rivers exceeded flood stage this month.

## **River Conditions**

River levels by the end of January were near to above normal for our HSA.

The end of the month percentage of normal flow for selected rivers is listed below:

<u>Location</u>	<u>River</u>	<u>% of Normal</u>
Scottville	Pere Marquette	150
Whitehall	White	117
Ewart	Muskegon	127
Mt. Pleasant	Chippewa	178
Lansing	Grand	104
Grand Rapids	Grand	127
East Lansing	Red Cedar	131
Hastings	Thornapple	122
Battle Creek	Battle Creek	134
Comstock	Kalamazoo	113

## **General Hydrologic Information**

January 2010 had below normal precipitation (especially snowfall) and above normal temperatures. January precipitation totals at Grand Rapids, Lansing, and Muskegon, Michigan were 0.85, 0.86, and 1.02 inches, respectively. Precipitation totals for the month at these three sites were 1.18 inches below normal at Grand Rapids, 0.75 of an inch below normal at Lansing, and 1.20 inches below normal at Muskegon, Michigan. Snowfall totals for the month were below normal at Grand Rapids, Lansing, and Muskegon with 9.3 (-11.8), 9.4 (-4.6), and 11.5 (-22.9) inches, respectively. At the end of the month, the snow depth was 1 inch at Grand Rapids and Lansing, and only 2 inches at Muskegon, Michigan.

Temperatures for the month of January were above normal at Grand Rapids, Lansing, and Muskegon, Michigan, with average monthly departures of +2.6, +1.2 and +2.4 degrees Fahrenheit, respectively. Frost Depths across the HSA were three to five inches at the end of the month.

## **Hydrologic Products issued this month:**

- 5 River Flood Advisories (ARBFLSGRR)
- 12 Hydrologic Statements (ARBRVSGRR)
- 2 Probabilistic Hydrologic Outlooks (ARBESFGRR)
- 31 Hydrologic Summaries (ARBRVAGRR)